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The Audio Graphic Stereo Equalizer

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THE AUDIO GRAPHIC STEREO EQUALIZER

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ABSTRACT

An audio equalizer is a device used with other stereo equipment to literally flatten the frequency response of broadcasts or recorded material. The audio graphic stereo equalizer in this report is designed to have two channels with 15 bands per channel. The bands are broken into three segments. There is two bass bands, 12 midrange bands and one high treble band. The bands are divided by half-octave divisions instead of the typical one octave spacing. The equalizer circuit consists of; the input of the signal through a set of phono jacks, an attenuator/buffer to reduce the signal, a bandpass filter bank to control the midband frequencies, a subtracter to remove three-fourths of the signal, an adder to add back a variable amount of the signal, and a wide-band amplifier network to control the bass and high treble bands.

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